

INCH POUND

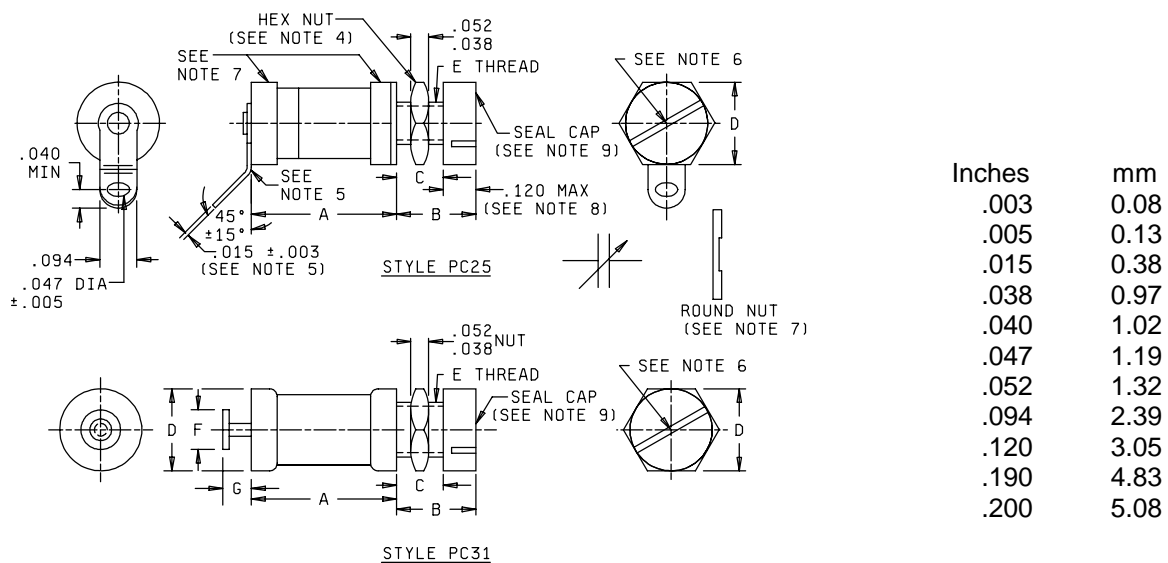
MIL-PRF-14409/12G
25 July 2001
SUPERSEDING
MIL-PRF-14409/12F
2 June 1992

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE, TUBULAR TRIMMER), STYLES PC25 AND PC31

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the capacitors described herein shall consist
of this document and the latest issue of specification MIL-PRF-14409.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .016$ inch (0.41 mm).
4. Solder, if used, shall be high temperature solder having a melting point of $300^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
5. Bend-point of terminals at turret shall be within the radius of the turret cap. For style PC25J060, terminal may be perpendicular to the body, .225 inch (5.72 mm) maximum length.
6. Screw slot shall be $.020 \pm .005$ inch (0.51 ± 0.13 mm) wide x .020 inch (0.51 mm) to .080 inch (2.03 mm) deep x .094 inch (2.39 mm) minimum long.
7. Round nut shall be furnished on parts with .190-64 thread.
8. Seal cap shall be .100 inch (2.54 mm) maximum for parts with .190-64 thread.
9. Seal cap shall be slotted.

FIGURE 1. Dimensions and configurations.

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TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Q Min	Dimensions						
	Min	Max		A ± .020 (0.51)	B Max	C ± .016 (0.41)	D	E	F	G
	<u>PE</u>	<u>PE</u>								
PC25J060	0.6	6.0	10,000	.281 (7.14)	.260 (6.60)	.141 (3.58)	.220 (5.59)	.190-64 UNS-2A	---	---
PC25J100	0.8	10.0	5,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	---	---
PC25J140	1.0	14.0	3,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	---	---
PC25J200	1.0	20.0	1,500	.500 (12.70)	.300 (7.62)	.170 (4.32)	.281 (7.14)	.234-64 UNS-2A	---	---
PC31J060	0.6	6.0	10,000	.281 (7.14)	.260 (6.60)	.141 (3.58)	.220 (5.59)	.190-64 UNS-2A	.063 (1.60)	.078 (1.98)
PC31J100	0.8	10.0	5,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)
PC31J140	1.0	14.0	3,000	.288 (7.32)	.260 (6.60)	.130 (3.30)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)
PC31J200	1.0	20.0	1,500	.500 (12.70)	.300 (7.62)	.170 (4.32)	.281 (7.14)	.234-64 UNS-2A	.094 (2.39)	.109 (2.77)

REQUIREMENTS:

Dimensions and configuration: See figure and table I.

DC voltage rating: 250 volts.

Construction: Alumina ceramic.

Dielectric: Air.

Capacitance range: See table I.

Insulation resistance: Shall not be less than 1,000,000 megohms at room ambient temperature and not less than 100,000 megohms at 125°C.

Test condition: 250 volts ±10 percent.

Quality factor (Q): See table I (measured at frequency of 100 MHz ±10 percent.

Driving torque: Greater than or equal to 0.5 and less than or equal to 6.0 ounce-inches from -55°C through +125°C, except that styles with .220 diameter shall be 0.4 to 4.0 ounce-inches.

Thermal shock: Method 107 of MIL-STD-202, test condition A (characteristic J), except the step 3 temperature shall be 125°C ±5°C.

Immersion: Method 104 of MIL-STD-202, test condition A.

Seal: Applicable, with seal cap on.

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Custodians:

Army - CR
Navy - EC
Air Force - 11

Preparing activity:

DLA - CC

Review activities:

Navy - AS, MC, OS

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